

669040" T498250

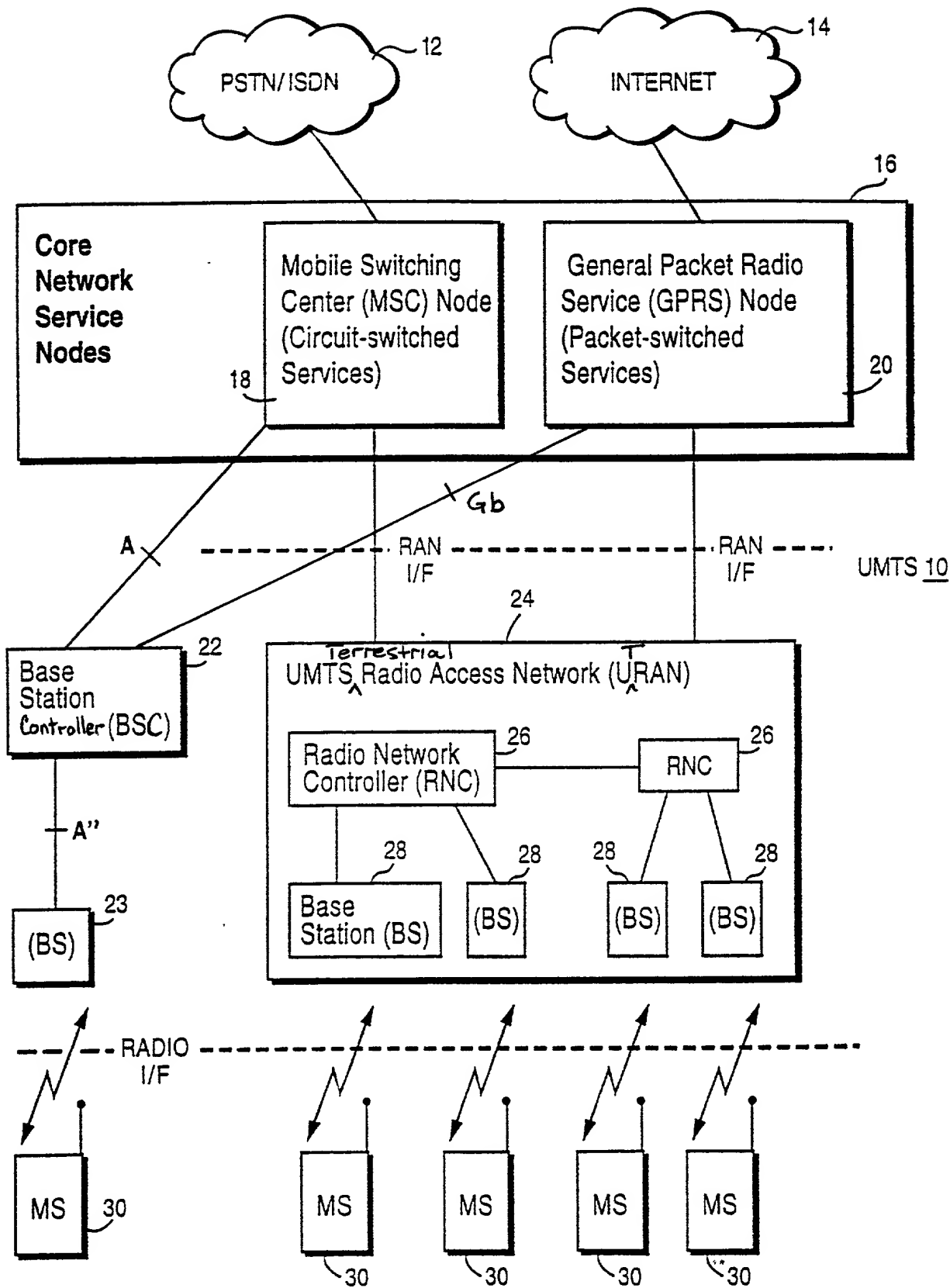
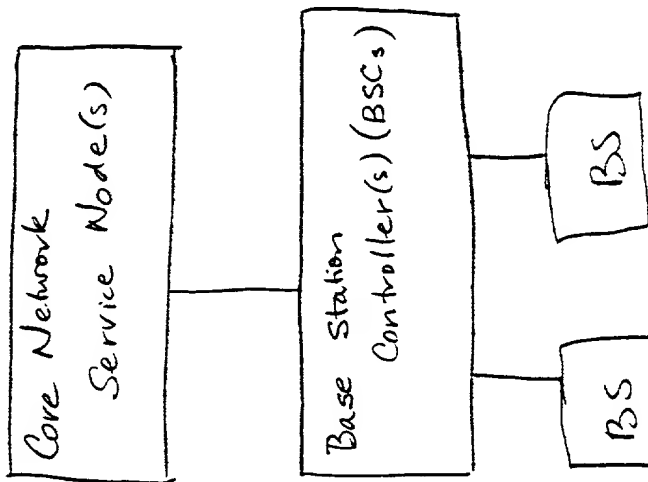


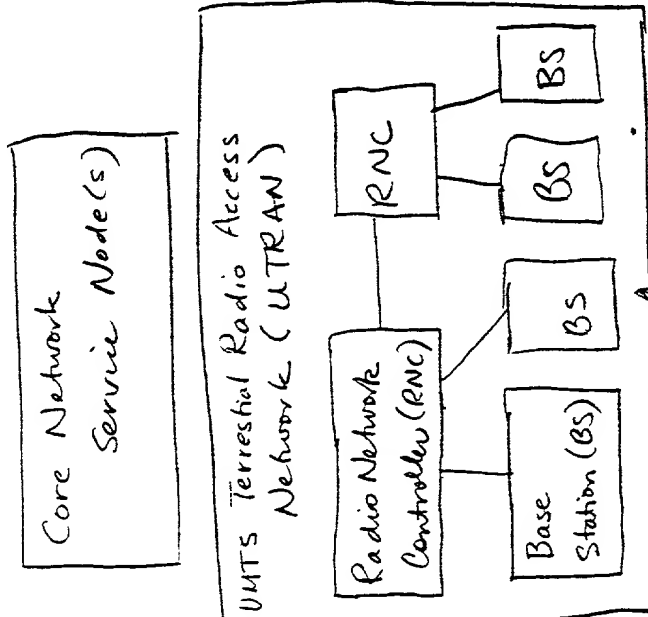
Fig. 1A

PSTN, ISDN, INTERNET, etc.

Second Generation Cellular System (2G)



Third Generation Cellular System



Other Cellular System

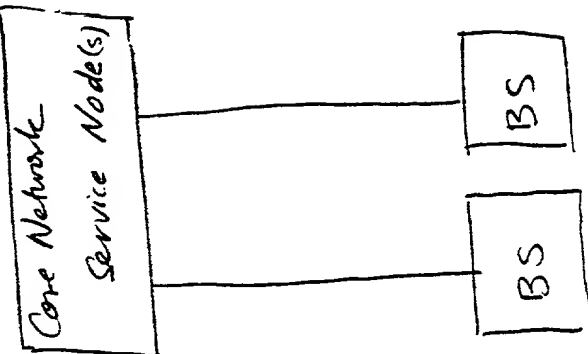


FIGURE 1B

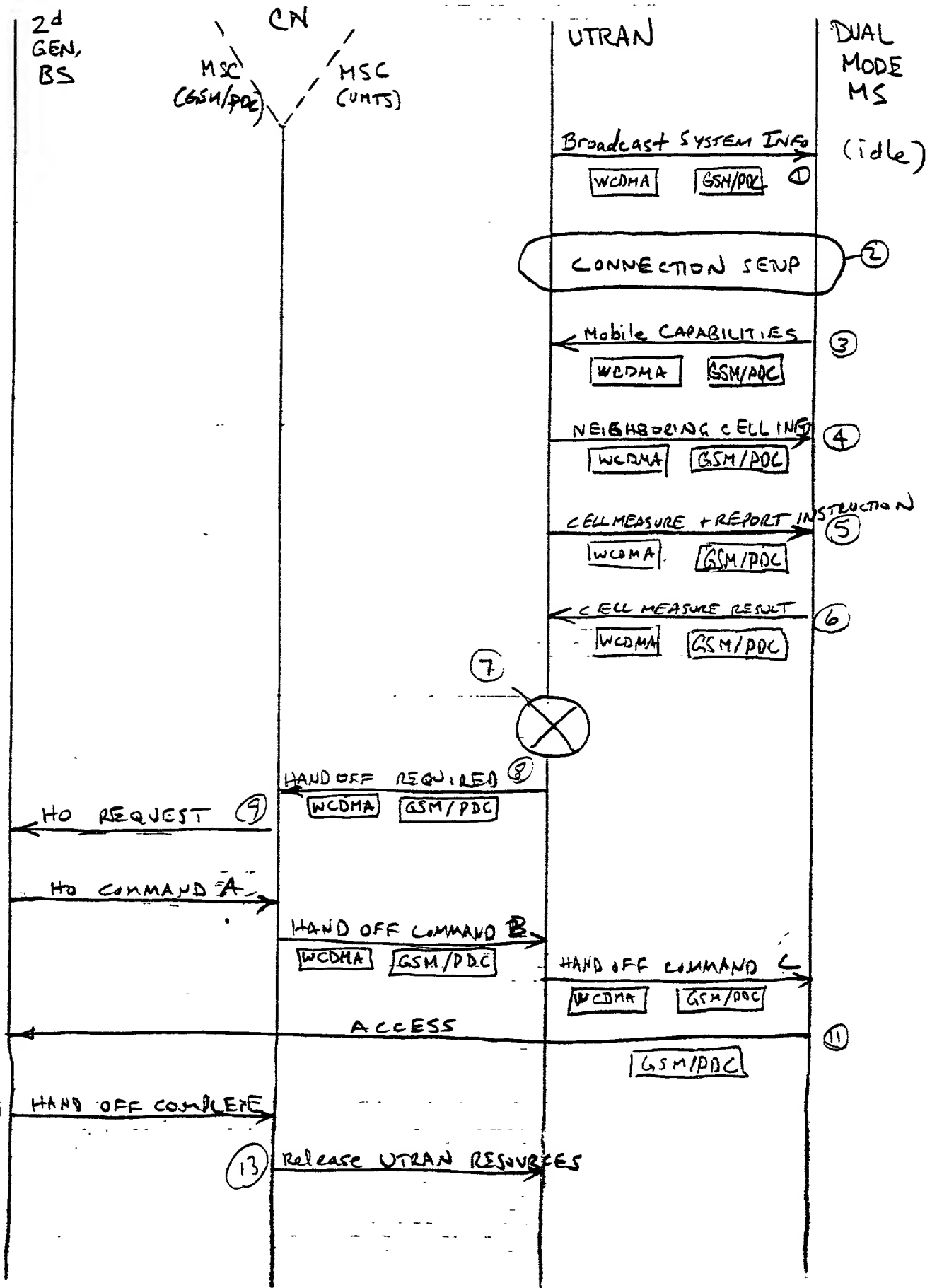


FIGURE 2

| |
|---|
| ⋮ |
| Neighbouring Cell n |
| Cell Type (UMTS, Foreign Type 1, Foreign Type 2, ...) |
| Neighbouring Cell Data (as specified by the specifications for the particular system) |
| Neighbouring Cell n-1 |
| Cell Type (UMTS, Foreign Type 1, Foreign Type 2, ...) |
| Neighbouring Cell Data (as specified by the specifications for the particular system) |
| Neighbouring Cell n-3 |
| Cell Type (UMTS, Foreign Type 1, Foreign Type 2, ...) |
| Neighbouring Cell Data (as specified by the specifications for the particular system) |
| ⋮ |

Figure 1/2 Alternative 1a – General Alternative, UMTS cells are treated as any cell.

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| ⋮ |
| Neighbouring UMTS cells according to the UMTS specification) |
| ⋮ |
| Neighbouring Cell n |
| Cell Type (Foreign Type 1, Foreign Type 2, ...) |
| Neighbouring Cell Data (as specified by the foreign system) |
| Neighbouring Cell n-1 |
| Cell Type (Foreign Type 1, Foreign Type 2, ...) |
| Neighbouring Cell Data (as specified by the foreign system) |
| Neighbouring Cell n-3 |
| Cell Type (Foreign Type 1, Foreign Type 2, ...) |
| Neighbouring Cell Data (as specified by the foreign system) |
| ⋮ |

Figure 2 Alternative 1b – Optimised Alternative, UMTS cells are treated differently.

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| | |
|---|---|
| | : |
| MS Radio Capabilities | |
| System Type (UMTS, Foreign Type 1, Foreign Type 2, ...) | |
| MS Radio Capabilities Data (as specified by the specifications for the particular system) | |
| MS Radio Capabilities | |
| System Type (Foreign Type 1, Foreign Type 2, ...) | |
| MS Radio Capabilities Data (as specified by the specifications for the particular system) | |
| | : |

Figure 5 Alternative 2a - General Alternative, UMTS radio capabilities are treated as any radio capability.

system

| |
|---|
| ⋮ |
| MS Radio Capabilities (according to the UMTS specification) |
| ⋮ |
| MS Radio Capabilities |
| Cell Type (Foreign Type 1, Foreign Type 2, ...) |
| MS Radio Capabilities Data (as specified by the specifications for the particular <i>foreign</i> system) |
| ⋮ |

Figure 4
b Alternative 2b - Optimised Alternative, UMTS radio capabilities are treated differently.

| | |
|---|---|
| | : |
| Neighbouring Cell n | |
| Cell Type (UMTS, Foreign Type 1, Foreign Type 2, ...) | |
| Neighbouring Cell Data (as specified by the specifications for the particular system) | |
| Neighbouring Cell n-1 | |
| Cell Type (UMTS, Foreign Type 1, Foreign Type 2, ...) | |
| Neighbouring Cell Data (as specified by the specifications for the particular system) | |
| Neighbouring Cell n-3 | |
| Cell Type (UMTS, Foreign Type 1, Foreign Type 2, ...) | |
| Neighbouring Cell Data (as specified by the specifications for the particular system) | |
| | : |

Figure 5 Alternative 3a – General Alternative, UMTS cells are treated as any cell.

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| ⋮ |
| Neighbouring UMTS cells (according to the UMTS specification) |
| ⋮ |
| Neighbouring Cell n |
| Cell Type (Foreign Type 1, Foreign Type 2, ...) |
| Neighbouring Cell Data (as specified by the foreign system) |
| Neighbouring Cell n-1 |
| Cell Type (Foreign Type 1, Foreign Type 2, ...) |
| Neighbouring Cell Data (as specified by the foreign system) |
| Neighbouring Cell n-3 |
| Cell Type (Foreign Type 1, Foreign Type 2, ...) |
| Neighbouring Cell Data (as specified by the foreign system) |
| ⋮ |

Figure 6 Alternative 3b - Optimised Alternative, UMTS cells are treated differently.

| | |
|---|---|
| | : |
| Neighbouring Cell n | |
| Cell Type (UMTS, Foreign Type 1, Foreign Type 2, ...) | |
| Measurement Control Data (as specified by the specifications for the particular system) | |
| Neighbouring Cell n-1 | |
| Cell Type (UMTS, Foreign Type 1, Foreign Type 2, ...) | |
| Measurement Control Data (as specified by the specifications for the particular system) | |
| Neighbouring Cell n-3 | |
| Cell Type (UMTS, Foreign Type 1, Foreign Type 2, ...) | |
| Measurement Control Data (as specified by the specifications for the particular system) | |
| | : |

Figure 7
9 Alternative 4a – General Alternative, UMTS cells are treated as any cell.

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| ⋮ |
| Measurement Control Data for Neighbouring UMTS cells (according to the UMTS specification) |
| ⋮ |
| Neighbouring Cell n |
| Cell Type (Foreign Type 1, Foreign Type 2, ...) |
| Measurement Control Data (as specified by the foreign system) |
| Neighbouring Cell n-1 |
| Cell Type (Foreign Type 1, Foreign Type 2, ...) |
| Measurement Control Data (as specified by the foreign system) |
| Neighbouring Cell n-3 |
| Cell Type (Foreign Type 1, Foreign Type 2, ...) |
| Measurement Control Data (as specified by the foreign system) |
| ⋮ |

Figure 8 Alternative 4b – Optimised Alternative, UMTS cells are treated differently.

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| ⋮ |
| Neighbouring Cell n |
| Measurement Report Data (as specified by the specifications for the particular system) |
| Neighbouring Cell n-1 |
| Measurement Report Data (as specified by the specifications for the particular system) |
| Neighbouring Cell n-3 |
| Measurement Report Data (as specified by the specifications for the particular system) |
| ⋮ |

Figure 9 // Alternative 5a – General Alternative, UMTS cells are treated as any cell.

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|--|---|
| | ⋮ |
| Measurement Report for Neighbouring UMTS cells (according to the UMTS specification) | |
| | ⋮ |
| Neighbouring Cell n | |
| Measurement Report Data (as specified by the foreign system) | |
| Neighbouring Cell n-1 | |
| Measurement Report Data (as specified by the foreign system) | |
| Neighbouring Cell n-3 | |
| Measurement Report Data (as specified by the foreign system) | |
| | ⋮ |

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|---|
| Message discriminator = "Handover Command" |
| System Type (UMTS, Foreign Type 1, Foreign Type 2, ...) |
| "Handover Command" (as specified by the specifications for the particular system) |

Figure 14 Alternative 6a – General Alternative, UMTS cells are treated as any cell.

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|---|
| Message discriminator = "Handover Command" |
| Handover Command parameters specific to UMTS [optional ¹] |
| Foreign Handover Command [optional parameter set ²] |
| System Type (Foreign Type 1, Foreign Type 2, ...) |
| "Handover Command" as specified by the foreign system) |

Figure 12 Alternative 5b – Optimised Alternative, UMTS cells are treated differently

| |
|---|
| Message discriminator = "Handover Required" |
| ⋮ |
| Target Cell n |
| Cell Type (UMTS, Foreign Type 1, Foreign Type 2, ...) |
| Cell Identifier (as specified by the foreign system) |
| Target Cell n+1 |
| Cell Type (UMTS, Foreign Type 1, Foreign Type 2, ...) |
| Cell Identifier (as specified by the foreign system) |
| Target Cell n+2 |
| Cell Type (UMTS, Foreign Type 1, Foreign Type 2, ...) |
| Cell Identifier (as specified by the foreign system) |
| ⋮ |

Figure 13 Alternative 7a - General Alternative, UMTS cells are treated as any cell.

| |
|---|
| Message discriminator = "Handover Required" |
| ⋮ |
| UMTS Target Cell n |
| Cell Identifier (according to the UMTS specification) |
| UMTS Target Cell n-1 |
| Cell Identifier (according to the UMTS specification) |
| UMTS Target Cell n-2 |
| Cell Identifier (according to the UMTS specification) |
| ⋮ |
| Foreign Target Cell n |
| Cell Type (Foreign Type 1, Foreign Type 2, ...) |
| Cell Identifier (as specified by the foreign system) |
| Foreign Target Cell n-1 |
| Cell Type (Foreign Type 1, Foreign Type 2, ...) |
| Cell Identifier (as specified by the foreign system) |
| Foreign Target Cell n-2 |
| Cell Type (Foreign Type 1, Foreign Type 2, ...) |
| Cell Identifier (as specified by the foreign system) |
| ⋮ |

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